Jacob Englert, M.S.

jacobenglert@outlook.com | (513) 473-8227 | Atlanta, GA https://jacobenglert.rbind.io | https://www.linkedin.com/in/jacobenglert/

EDUCATION

Emory University Atlanta, GA

Doctor of Philosophy (Ph.D.), Biostatistics

Expected May 2025

• Thesis: Bayesian Tree-Based Methods for Estimating Heterogeneous Effects of Environmental Exposures

Master of Science (M.S.), Biostatistics

May 2023

- GPA: 3.9/4.0
- Relevant Coursework: Machine Learning, Bayesian Statistics, Longitudinal and Multi-level Data Analysis, Generalized Linear Models, Survival Analysis, Advanced Statistical Computing, Statistical Inference, Probability Theory

Northern Kentucky University *Bachelor of Science (B.S.), Mathematics and Statistics*

Highland Heights, KY

May 2019

- GPA: 4.0/4.0
- Relevant Coursework: Time-Series Analysis, Regression Analysis, Design and Analysis of Experiments, Econometrics, Differential Equations, Linear Algebra, Calculus

PROFESSIONAL EXPERIENCE

Medpace Cincinnati, OH

Data Analyst

Oct 2019 - Jul 2020

- Designed interactive Spotfire dashboards used to monitor patient safety and compliance
- Conducted power simulations in R to study impacts of over-stratification in clinical trial designs

Biostatistics Intern Jan 2018 – Jun 2019

- Programmed tables and figures to summarize safety and efficacy endpoints
- Refined department-wide production programs and created SAS graphics templates

Burkardt Consulting Center

Highland Heights, KY

Statistical Consultant Aug 2018 – May 2019

 Advised academic and industrial clients on the formulation of research questions, data collection, and statistical methodology

Federal Bureau of Investigation

Cincinnati, OH

Student Workforce Trainee

Jun 2017 – Dec 2017

- Assisted cybercrimes squad with ongoing investigations by identifying statistical anomalies in case data
- Obtained top secret security clearance

RESEARCH EXPERIENCE

Emory University Atlanta, GA

Research Assistant

May 2021 – Present

Advised the SPIPIT (Sharing the Patient's Illness Penrasentations to Increase Trust) team on methods to model

- Advised the SPIRIT (Sharing the Patient's Illness Representations to Increase Trust) team on methods to model correlated survey data from a multi-site cluster randomized trial, and conducted these analyses using generalized linear mixed models and generalized estimating equations in R and SAS
- Evaluated spatial smoothing and cluster detection techniques for opioid overdose records in Georgia using R

Northern Kentucky University

Highland Heights, KY

Research Assistant

Jan 2017 – May 2019

- Applied singular spectrum analysis to discover trends and generate forecasts for temperatures in Togo, Africa
- Collaborated with Cincinnati Children's Hospital to develop a logistic regression model to predict the development of chronic kidney disease in children with acute kidney injury
- Investigated the effectiveness of Shinn weights to decipher Japanese naval messages from World War II

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SKILLS

- Programming Languages: R, SAS, Python, SQL, C++ (Rcpp), Mathematica
- Software: Spotfire, SPSS, JMP, Minitab, Tableau, ArcMap, MS Office, Git, HPC systems
- Certifications: SAS Certified Base Programmer for SAS 9

TEACHING EXPERIENCE

Emory University

Teaching Assistant

• R Bootcamp for Epidemiology

Fall 2023

Applied Linear Models

Spring 2022, Spring 2023

o Guest Lecture: Poisson Regression

Fall 2022

Longitudinal and Multilevel Data Analysis

Fall 2022

o Guest Lecture: Bayesian Hierarchical Models

Guest Lecture: Simulation Studies in R

Spring 2021, Fall 2021

• Geographic Information Systems (GIS)

Northern Kentucky University

Teaching Assistant

• Introduction to Statistical Methods

Spring 2016 – Fall 2018

AWARDS

- First Year Qualifying Exam Top Performer (2021), Dept. of Biostatistics and Bioinformatics, Emory University
- Laney Graduate School Fellowship (2020), Laney Graduate School, Emory University
- Outstanding Senior in Statistics (2019), Dept. of Mathematics and Statistics, Northern Kentucky University
- Outstanding Senior in Mathematics (2019), Dept. of Mathematics and Statistics, Northern Kentucky University
- Honorable Mention, 2019 COMAP Mathematical Modeling Competition
- Outstanding Poster Presentation, 2019 Joint Mathematics Meetings, Mathematical Association of America
- Honorable Mention, 2018 Public Health Data Challenge, American Statistical Association
- Outstanding Student Writing Award (2016), Dept. of English, Northern Kentucky University

ACTIVITIES

- Academic Tutoring, Emory University and Northern Kentucky University
- Scorekeeper, John O'Bryan Mathematics Competition, Northern Kentucky University
- Senator & Justice, Student Government Association, Northern Kentucky University

MEMBERSHIP

American Statistical Association (Emory Chapter), Emory University